

## LFUCG DIVISION OF ENGINEERING PROCEDURES FOR RAISING A SANITARY SEWER MANHOLE RIM

1. The property owner desiring to raise the manhole rim shall retain a licensed engineer in private practice.
2. The engineer shall contact the Division of Engineering to advise them of the request and to obtain any needed as-built drawings.
3. The engineer shall conduct sufficient investigation to determine the feasibility of raising the manhole rim. This shall include evaluating potential impacts of the higher rim elevation on the property owner's house, and on other houses on the same pipe run. The manhole rim elevation shall be at least 12 inches below the lowest floor elevation of all houses on the same pipe run.
4. The engineer shall prepare a drawing showing the work the engineer and the property owner wish to perform. The work shall be classified as either "raising" or "reconstructing" as defined below." This information shall be delivered to the Division of Engineering for approval.
  - Raising is defined as increasing the rim elevation by 12 inches or less and may be accomplished via the addition of grade rings.
  - Reconstructing is defined as increasing the rim elevation greater than 12 inches and requires removal of the cone or top slab, addition of manhole sections and very likely the addition of at least one step to the manhole and/or cone section, so that the distance from the rim to the first step does not exceed 18 inches.
5. The property owner shall hire a contractor to perform the work, including a vacuum test. The engineer shall ensure that a representative from the Division of Engineering is present for the test.
6. The contractor shall use care in performing any grading or other work in the vicinity of the adjusted manhole, since any disturbance to the casting, grade rings, etc. will require performance of another satisfactory vacuum test.
7. The engineer shall determine the new rim elevation and furnish this information to the Division of Engineering, along with certification of the vacuum test and a statement that the work will not materially increase the potential for sewage to back up into houses connected to the immediate collector line. Following are exceptions to the requirements for vacuum testing:
  - If the manhole is part of a development's sanitary sewer facility under the 3-year warranty period, the vacuum test shall be performed as indicated above.
  - If the manhole is not under the warranty period, the vacuum test is not required.
  - If the manhole rim is being raised by less than 8 inches, the vacuum test is not required.
  - If the manhole casting or riser rings were physically knocked off center or damaged and have been indicated to be repaired as part of the 3-year inspection punch list, a vacuum test shall be required as indicated above.